





# Ankit Tiwari

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## SUMMARY

Software Engineering undergraduate with strong foundations in **data structures, algorithms, and full-stack development**. Hands-on experience building **secure, scalable, and production-ready web applications** using React, Node.js, Express, and REST APIs. Proficient in authentication systems, database modeling, and clean API design. Highly interested in backend engineering, system design, and writing maintainable code for real-world applications.

## EDUCATION

- Bhagwan Mahavir College of Computer Application (BMCCA)** Surat, India  
*Bachelor of Computer Application (BCA), GPA: 8.59 / 10* Jul 2023 – May 2026

## SKILLS

- Programming & DSA:** Java, C++, JavaScript, Python — solid understanding of arrays, strings, recursion, trees, OOP principles, and time complexity analysis
- Frontend:** React (hooks, reusable components, state management), HTML5, CSS3, Tailwind CSS
- Backend:** Node.js, Express.js, RESTful API design, JWT-based authentication, middleware, request validation
- Databases:** MongoDB (schema modeling, indexing, aggregations), MySQL (queries, joins, relational modeling)
- Tools:** Git, GitHub, Postman, Figma, debugging, clean code practices, API testing

## PROJECTS

- SafeSpend – Smart Finance Tracker:** Full-stack personal finance platform for expense tracking, budgeting, and financial analytics  
*React, Tailwind CSS, Node.js, Express.js, MongoDB, JWT* [\[GitHub\]](#) — [\[Live Demo\]](#)
  - Designed and implemented **JWT-based authentication** with protected routes, supporting **secure session handling for 100+ user records** during testing.
  - Developed **10+ RESTful APIs** to manage income, expenses, categories, and transaction history using scalable backend architecture.
  - Modeled financial data with **5+ MongoDB schemas** and indexing, improving query efficiency for monthly and category-wise analytics.
  - Built interactive dashboards with **dynamic charts and summaries** to visualize spending trends, balances, and monthly reports.
  - Implemented **date-range and category-based filtering**, enabling users to analyze expenses across custom time periods.
  - Added **Excel export functionality** to generate downloadable reports for offline financial analysis.
  - Followed a **modular backend structure** with centralized error handling and reusable middleware, improving code maintainability.

## ACHIEVEMENTS

- 1st Place:** Design Thinking Competition – Bhagwan Mahavir University (Nov 2024)
- 2nd Place:** Innovate Hackathon – BMCCA (Mar 2024)
- 3rd Place:** Mindstorm Interlevel Competition (Jan 2025)

## CERTIFICATIONS

- GeeksforGeeks:** Full Stack Developer Bootcamp (6 Weeks) [Certificate](#)
- GeeksforGeeks:** GFG 160 – Data Structures & Algorithms [Certificate](#)
- Google Cloud Skills Boost:** Build Real-World AI Apps with Gemini & Imagen [Certificate](#)
- HackerRank:** Java & JavaScript Certifications [Profile](#)